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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/707,871	01/20/2004	Ling-Yi Liu	IFTP0001USA	1870
27765	7590 10/05/2006	•	EXAMINER	
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION			UNELUS, ERNEST	
P.O. BOX 506 MERRIFIELD, VA 22116		ART UNIT	PAPER NUMBER	
			2181	
			DATE MAILED: 10/05/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Comments		10/707,871	LIU ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Ernest Unelus	2181			
Period fo	The MAILING DATE of this communication apportunity	pears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Dansions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 20 Ja	anuary 2004				
2a) [This action is FINAL . 2b) This action is non-final.					
, 	<i>,</i> ————————————————————————————————————	ce this application is in condition for allowance except for formal matters, prosecution as to the merits is				
٠,٣	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims		·			
4) 🖂	☑ Claim(s) <u>1-95</u> is/are pending in the application.					
·	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)) ☐ Claim(s) is/are allowed.					
6)	Claim(s) is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) 1-95 are subject to restriction and/or	election requirement.	·			
Applicati	on Papers					
9)	The specification is objected to by the Examine	er.				
10) \boxtimes The drawing(s) filed on <u>20 January 2004</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO-152.			
Priority ι	ınder 35 U.S.C. § 119					
•	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).			
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the prio application from the International Bureas	u (PCT Rule 17.2(a)).	100000			
* 5	See the attached detailed Office action for a list	of the certified copies not receive	a AM. De			
		È	DITY FI EMING			
		SUPERVIS	ORY PATENT EXAMINER OLOGY CENTER 2100			
Attachmen	· t(s)	TECHN	9/29/2006			
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
_	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application			

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Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-53, and 78-95, drawn to a storage virtualization computer system,
 classified in class 710, subclass 5.
- II. Claims 54-77, drawn to an external storage virtualization controller, classified in class 710, subclass 74.

The inventions are distinct, each from the other because of the following reasons: Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars; for example, the combination claim does not recite the central processing circuitry of the storage virtualization subsystem. The subcombination, the storage virtualization subsystem, has separate utility such as placing a plurality of Storage Virtualization controllers configured redundantly so that should one controller fail or malfunction, another controller will takeover all the operations originally performed by the failed or malfunctioned controller.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an

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election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Contact info

If attempts to reach the above noted Examiner by telephone is unsuccessful, the Examiner's supervisor, Mr. Fritz M. Fleming, can be reached at the following telephone number: Area Code (571) 272-4145.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained

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from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 29, 2006

Ernest Unelus

Examiner Art Unit 2181

TECHNOLOGY CENTER 2100

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